IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Canceled)
- 2. (Currently amended) A method comprising:

forming a layer of high-K dielectric material on a layer of substrate material;

forming at least a first gate and a second gate on the layer of high-K dielectric

material, leaving an exposed portion of the high-K material between the first

and second gates;

- exposing the exposed portion of the layer of high-K dielectric material to hydrogen to
 reduce the exposed portion to form a metallic portion from the exposed
 portion;
- removing the metallic portion from the layer of high-K material by exposing the

 metallic portion to a wet chemical etchant selective to the metallic portion to

 form a trench;

forming spacers adjacent to the first gate and the second gate; and

The method of claim 1-wherein forming the spacers comprises forming the spacers adjacent the gates after removing the metallic portion from the layer of high-K material.

3. (Original) The method of claim 2 wherein at least one spacer extends from substantially a top surface of one of the first and second gates into the trench to a bottom surface of the trench.

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- 4. (Currently amended) The method of claim [[1]] 2 wherein forming the spacers comprises forming the spacers before exposing the exposed portion of the layer of high-K dielectric material to hydrogen.
- 5. (Original) The method of claim 4 wherein the spacers extend from substantially the top surface of the gates to which that spacer is adjacent to a top surface of the layer of high-K dielectric material.
- 6. (Currently amended) The method of claim [[1]] 2 wherein the high-K dielectric material comprises Hafnium dioxide and wherein the metallic portion comprises Hafnium.
- 7. (Currently amended) The method of claim [[1]] 2 wherein the high-K dielectric material comprises Zirconium dioxide and wherein the metallic portion comprises Zirconium.
- 8. (Currently amended) The method of claim [[1]] 2 wherein exposing the exposed portion of the layer of high-K dielectric material to hydrogen comprises exposing the exposed portion of the layer of high-K dielectric material to hydrogen in a plasma chamber.

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- 9. (Original) The method of claim 8 wherein the layer of high-K dielectric material is disposed in the plasma chamber at a distance from a plate ranging from about 5 mm to about 10 mm.
- 10. (Original) The method of claim 8 wherein exposing the exposed portion of the layer of high-K dielectric material to hydrogen comprises exposing the exposed portion of the layer of high-K dielectric material to hydrogen at a flow rate that ranges from about 1000 SCCM to about 2000 SCCM.
- 11. (Currently amended) A method comprising:

forming a layer of high-K dielectric material on a substrate;

forming at least a first gate and a second gate on the layer of high-K dielectric

material, leaving an exposed portion of the high-K material between the first
and second gates;

exposing the [[an]] exposed portion of the layer of high-K dielectric material to hydrogen to reduce the exposed portion of the layer of high-K dielectric material to form a metallic portion from the exposed portion; and

removing the metallic portion from the layer of high-K material by exposing the metallic portion to a wet chemical etchant selective to the metallic portion to form a trench between the first gate and the second gate, while leaving discrete portions of the high-K material on sides of the first and second gates opposite the trench;

- forming a first spacer on a side of the first gate adjacent the trench, the first spacer

 extending from substantially a top surface of the gate into the trench to a

 bottom surface of the trench; and
- spacer extending from substantially the top surface of the gate to the discrete portion of the high-K material.
- 12. (Original) The method of claim 11 wherein the high-K dielectric material comprises

 Hafnium dioxide and wherein the metallic portion comprises Hafnium.
- (Original) The method of claim 11 wherein the high-K dielectric material comprises
 Zirconium dioxide and wherein the metallic portion comprises Zirconium.
- 14. (Original) The method of claim 11 wherein exposing the exposed portion of the layer of high-K dielectric material to hydrogen comprises exposing the exposed portion of the layer of high-K dielectric material to hydrogen in a plasma chamber.
- 15. (Original) The method of claim 14 wherein the layer of high-K dielectric material is disposed in the plasma chamber at a distance from a plate ranging from about 5 mm to about 10 mm.
- 16. (Original) The method of claim 14 wherein exposing the exposed portion of the layer of high-K dielectric material to hydrogen comprises exposing the exposed portion of

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the layer of high-K dielectric material to hydrogen at a flow rate that ranges from about 1000 SCCM to about 2000 SCCM.

- 17. (Original) The method of claim 11 wherein the wet chemical etchant comprises a sulfuric acid and hydrogen peroxide based etch chemistry.
- 18. (Original) The method of claim 17 wherein the etch chemistry is a piranha etch chemistry.
- 19. (Original) The method of claim 11 wherein the wet chemical etchant comprises a hydrochloric acid and hydrogen peroxide based etch chemistry.
- 20. (Original) The method of claim 19 wherein the etch chemistry is an SC2 etch chemistry.
- 21. (Currently amended) A method to form a trench having substantially zero etch bias through a thin film of high-K dielectric material comprising:

 forming a layer of high-K dielectric material on a layer of substrate material;

 forming at least a first gate and a second gate on the layer of high-K dielectric material, leaving an exposed portion of the high-K material between the first and second gates, wherein each of the first gate and the second gate has a bottom surface;

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- exposing [[an]] the exposed portion of the layer film of high-K dielectric material to hydrogen to reduce the exposed portion to form a metallic portion from the exposed portion; and
- removing the metallic portion from the layer of high-K material by exposing the metallic portion to a wet chemical etchant selective to the metallic portion to form a trench between the first gate and the second gate;
- forming a first spacer adjacent to a first side of the first gate adjacent the trench, the

 first spacer extending from a position above the bottom surface of the first
 gate to extend into the trench to a position below the bottom surface of the
 first gate.
- 22. (Original) The method of claim 21 wherein the wet chemical etchant comprises a sulfuric acid and hydrogen peroxide based etch chemistry.
- 23. (Original) The method of claim 22 wherein the etch chemistry is a piranha etch chemistry.
- 24. (Original) The method of claim 21 wheren the wet chemical etchant comprises a hydrochloric acid and hydrogen peroxide based etch chemistry.
- 25. (Original) The method of claim 24 wherein the etch chemistry is an SC2 etch chemistry.

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- 26. (Original) The method of claim 21 wherein the high-K dielectric material comprises

 Hafnium dioxide and wherein the metallic portion comprises Hafnium.
- 27. (Original) The method of claim 21 wherein the high-K dielectric material comprisesZirconium dioxide and wherein the metallic portion comprises Zirconium.
- 28. (New) The method of claim 21, wherein the first spacer extends to a bottom surface of the trench.
- 29. (New) The method of claim 21, wherein a portion of the layer of high-K material remains as a discrete portion on a second side of the first gate opposite the first side after formation of the trench between the first and second gates.
- 30. (New) The method of claim 29, further comprising forming a second spacer adjacent the second side of the first gate, the second spacer extending from a position above the bottom surface of the first gate to the discrete portion.
- 31. (New) The method of claim 21, wherein removing the metallic portion leaves an exposed portion of the substrate material at the bottom of the trench.
- 32. (New) The method of claim 31, wherein the first spacer extends to the substrate material.

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33. (new) The method of claim 32, wherein a portion of the layer of high-K material remains as a discrete portion on a second side of the first gate opposite the first side after formation of the trench between the first and second gates and further comprising forming a second spacer adjacent the second side of the first gate, the second spacer extending from a position above the bottom surface of the first gate to the discrete portion.

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